ENGINEERING CHANGE NOTICE DART AEROSPACE LTD

												17619-1	×
Date: 17.04.19 Product No.: D119-675			Job No.: PI17-675-01			ADR Yes/No: N ADR D					ECN#:	17- 560	
	= 1.7						Created B		Approv	ed By: -		LOIV W.	17- 300
Produ	uct Name: Heli Access Step						Checked E	Ву:			- 04		
					Initial /								nitial /
Distri	ibution	Reqd	Resp	Date	(YY/MAN	(DD)	Distribu	ıtion		Reqd	Resp		nitial / YY/MM/DD)
Director of Operations			JOM CA		1/1701.01		DQA / C	DQA / QA Coord.		Y	PS / ED	Date	7.0476
	uction Planner	Å	MP/VS	17	- 14 - 7		QC Coo	100000000000000000000000000000000000000		Y	PD	(A)	1.04.25
Purchasing Manager / Purchasing Coord. N			LL / CL	11		-Ψ		er Support		V	SW / LM	717	104.26
			DD / JLM	12.04.26			Customer Technical Support			W.	MB / HS	16	05 06
Production Engineering Coord. N DL			W 17:02			Marketing			Ň	SL/WR	1711	00.00	
Customer Order Processing N SL / MF								nagement Coo	rd.	Y	НМ	HM I	7.04.26
							A. A					100	
	on for Change:				857	noo eo 1180000		200				e de la constante de la consta	
It was	s discovered on NCR 12-1532 that the radi	us of 0.1	13" on D4084	-1 was too	large and	d should b	e 0.031" in	stead					
Docu	ments Affected:												
	4 Rev. C												
المحتوا	4 1.64. 0												
l													
l													
					-								
IF A	PPLICABLE: NCR:	_	PAR:		-	CAR:	16-162	_ CIR:				URF:	Paris
	PAPERWORK UPDATE	1		PARTS	MUST	COMPL	Y [PREVI	OUS P	ARTS :	SATISFA	CTORY	х
#	Quality Assurance	e Action	ne.		Reqd	Resp		J N	otes			<u> </u>	omplete
1	Notify Previous Customers	CHOLIO			_	Коэр		140	ies			- "	mpiete
-					N								
2	Notify Eurocopter France				N								
3	Notify Augusta Westland				N								
4 Manufacturing Licensing Agreement Update					N								
						_							
#	Engineering A				Reqd	Resp		No	tes			Co	omplete
5	Required Documents/Drawings/Item ID's		eview (URF)		N	Resp						Co	omplete
5 6	Required Documents/Drawings/Item ID's Update Master Document List (MDL)		eview (URF)		N N	Resp	MDL to be	No updated at nex)		Co	omplete
5 6 7	Required Documents/Drawings/Item ID's Update Master Document List (MDL) Update Document Record (DR)		eview (URF)		N N N	Resp	MDL to be			1	1	Co	omplete
5 6 7 8	Required Documents/Drawings/Item ID's Update Master Document List (MDL) Update Document Record (DR) Update Product Compatability Matrix	Under R	eview (URF)		N N N	Resp	MDL to be			1	,	Co	omplete
5 6 7 8 9	Required Documents/Drawings/Item ID's Update Master Document List (MDL) Update Document Record (DR)	Under R	eview (URF)		N N N	Resp	MDL to be			1		Co	omplete
5 6 7 8	Required Documents/Drawings/Item ID's Update Master Document List (MDL) Update Document Record (DR) Update Product Compatability Matrix	Under R	eview (URF)		N N N	Resp	MDL to be)		Co	omplete
5 6 7 8 9	Required Documents/Drawings/Item ID's Update Master Document List (MDL) Update Document Record (DR) Update Product Compatability Matrix Notify TC / FAA of Change (eg. ICA, 8110)	Under R	× ×		N N N N		MDL to be	updated at nex	t revision	1			
5 6 7 8 9 10	Required Documents/Drawings/Item ID's Update Master Document List (MDL) Update Document Record (DR) Update Product Compatability Matrix Notify TC / FAA of Change (eg. ICA, 8110	Under R	× ×		N N N N	Resp	MDL to be	updated at nex)		Co	omplete ,
5 6 7 8 9 10	Required Documents/Drawings/Item ID's Update Master Document List (MDL) Update Document Record (DR) Update Product Compatability Matrix Notify TC / FAA of Change (eg. ICA, 8110 Document Control Move / Update Electronic Files / Design J	O-3)	× ×		N N N N N		MDL to be	updated at nex	t revision				omplete ,
5 6 7 8 9 10	Required Documents/Drawings/Item ID's Update Master Document List (MDL) Update Document Record (DR) Update Product Compatability Matrix Notify TC / FAA of Change (eg. ICA, 8110 Document Control Move / Update Electronic Files / Design J Update Product Specification Files (Bluefile	O-3) I Action ournal lies)	× ×		N N N N	Resp	MDL to be	updated at nex	t revision			Co 17.04	omplete
5 6 7 8 9 10 # 11 12 13	Required Documents/Drawings/Item ID's Update Master Document List (MDL) Update Document Record (DR) Update Product Compatability Matrix Notify TC / FAA of Change (eg. ICA, 8110 Document Control Move / Update Electronic Files / Design J	Under R 0-3) ol Action ournal lles)	is		N N N N N	Resp KJ	MDL to be	updated at nex	t revision			Co 17.04	omplete ,
5 6 7 8 9 10 # 11 12 13 14	Required Documents/Drawings/Item ID's Update Master Document List (MDL) Update Document Record (DR) Update Product Compatability Matrix Notify TC / FAA of Change (eg. ICA, 8110 Document Control Move / Update Electronic Files / Design J Update Product Specification Files (Bluefi Update Approved/Preliminary Dwg PDF F	D-3) DI Action ournal lies) SIGN STC app	olications)		N N N N N Reqd Y	Resp KJ	MDL to be	updated at nex	t revision	1		Co 17.04	omplete
5 6 7 8 9 10 # 11 12 13 14 15 16	Required Documents/Drawings/Item ID's Update Master Document List (MDL) Update Document Record (DR) Update Product Compatability Matrix Notify TC / FAA of Change (eg. ICA, 8110 Document Control Move / Update Electronic Files / Design J Update Product Specification Files (Bluefi Update Approved/Preliminary Dwg PDF F Update Product Development Summary (Update QSI 021 (TC/FAA STC) and/or ST Create/Update Parts / STC Database	O-3) I Action ournal les) Eles STC appre	olications)		N N N N N N Reqd Y N	Resp KJ	MDL to be	updated at nex	t revision	1		Co 17.04	omplete
5 6 7 8 9 10 # 11 12 13 14 15 16	Required Documents/Drawings/Item ID's Update Master Document List (MDL) Update Document Record (DR) Update Product Compatability Matrix Notify TC / FAA of Change (eg. ICA, 8110 Document Control Move / Update Electronic Files / Design J Update Product Specification Files (Bluefi Update Approved/Preliminary Dwg PDF F Update Product Development Summary (i Update QSI 021 (TC/FAA STC) and/or ST Create/Update Parts / STC Database Update / Verify Airworthiness Release Ce	O-3) I Action ournal les) Iles STC approximates approximate in the control output in	olications) oval List Database		N N N N N N N N N N N N N N N N N N N	Resp KJ	MDL to be	updated at nex	t revision	1		Co 17.04	omplete
5 6 7 8 9 10 # 11 12 13 14 15 16 17 18	Required Documents/Drawings/Item ID's Update Master Document List (MDL) Update Document Record (DR) Update Product Compatability Matrix Notify TC / FAA of Change (eg. ICA, 8110 Document Control Move / Update Electronic Files / Design J Update Product Specification Files (Bluefi Update Approved/Preliminary Dwg PDF F Update Product Development Summary (i Update QSI 021 (TC/FAA STC) and/or ST Create/Update Parts / STC Database Update / Verify Airworthiness Release Ce Create / Update Change Record Form / It	O-3) I Action ournal lies) II C Approximate the control ournal results of the control ournal r	olications) oval List Database		N N N N N Y N N N N N N N N N N N N N N	Resp KJ	MDL to be	updated at nex	t revision	1		Co 17.04	omplete
5 6 7 8 9 10 # 11 12 13 14 15 16 17 18	Required Documents/Drawings/Item ID's Update Master Document List (MDL) Update Document Record (DR) Update Product Compatability Matrix Notify TC / FAA of Change (eg. ICA, 8110 Document Control Move / Update Electronic Files / Design J Update Product Specification Files (Bluefi Update Approved/Preliminary Dwg PDF F Update Product Development Summary (i Update QSI 021 (TC/FAA STC) and/or ST Create/Update Parts / STC Database Update / Verify Airworthiness Release Ce Create / Update Packaging Process Plan	Under R D-3) I Action ournal lles) Elles STC appre C Appre em Card (PPP)	blications) boval List Database		N N N N N N N N N N N N N N N N N N N	Resp KJ	MDL to be	updated at nex	t revision	1		Co 17.04	omplete
5 6 7 8 9 10 # 11 12 13 14 15 16 17 18 19 20	Required Documents/Drawings/Item ID's Update Master Document List (MDL) Update Document Record (DR) Update Product Compatability Matrix Notify TC / FAA of Change (eg. ICA, 8110 Document Control Move / Update Electronic Files / Design J Update Product Specification Files (Bluefi Update Approved/Preliminary Dwg PDF F Update Product Development Summary (i Update QSI 021 (TC/FAA STC) and/or ST Create/Update Parts / STC Database Update / Verify Airworthiness Release Ce Create / Update Change Record Form / It Create / Update Packaging Process Plan Red Decals required on Packaging Proce	D-3) I Action ournal les) Eles STC approximate lem Card (PPP) ss Plan (blications) boval List Database Database (PPP)?		N N N N N N N N N N N N N N N N N N N	Resp KJ	MDL to be	updated at nex	t revision	1		Co 17.04	omplete
5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	Required Documents/Drawings/Item ID's Update Master Document List (MDL) Update Document Record (DR) Update Product Compatability Matrix Notify TC / FAA of Change (eg. ICA, 8110 Document Control Move / Update Electronic Files / Design J Update Product Specification Files (Bluefi Update Approved/Preliminary Dwg PDF F Update Product Development Summary (i Update QSI 021 (TC/FAA STC) and/or ST Create/Update Parts / STC Database Update / Verify Airworthiness Release Ce Create / Update Change Record Form / It Create / Update Packaging Process Plan Red Decals required on Packaging Proce Update Controlled Supplier Documents (C	D-3) I Action ournal les) Iles STC approximate lem Card (PPP) ss Plan (Qpulse) [Qpulse]	polications) poval List Database I Database (PPP)? Database		N N N N N N N N N N N N N N N N N N N	Resp KJ	MDL to be	updated at nex	t revision	1		Co 17.04	omplete
5 6 7 8 9 10 # 11 12 13 14 15 16 17 18 19 20 21 22	Required Documents/Drawings/Item ID's Update Master Document List (MDL) Update Document Record (DR) Update Product Compatability Matrix Notify TC / FAA of Change (eg. ICA, 8110 Document Control Move / Update Electronic Files / Design J Update Product Specification Files (Bluefi Update Approved/Preliminary Dwg PDF F Update Product Development Summary (i Update QSI 021 (TC/FAA STC) and/or Si Create/Update Parts / STC Database Update / Verify Airworthiness Release Ce Create / Update Change Record Form / It Create / Update Packaging Process Plan Red Decals required on Packaging Proce Update Controlled Supplier Documents (C) Update Grey Project Binder / Electronic P	D-3) I Action ournal les) Eles STC approximate lem Card (PPP) SS Plan (Qpulse) Erroject For	Database Database Database Database Database Database Database		N N N N N N N N N N N N N N N N N N N	Resp KJ KJ	MDL to be	updated at nex	t revision			17.0	emplete 1.26 Pd 1.36 Pd
5 6 7 8 9 10 # 11 12 13 14 15 16 17 18 19 20 21 22 23	Required Documents/Drawings/Item ID's Update Master Document List (MDL) Update Document Record (DR) Update Product Compatability Matrix Notify TC / FAA of Change (eg. ICA, 8110 Document Control Move / Update Electronic Files / Design J Update Product Specification Files (Bluefi Update Approved/Preliminary Dwg PDF F Update Product Development Summary (i Update QSI 021 (TC/FAA STC) and/or ST Create/Update Parts / STC Database Update / Verify Airworthiness Release Ce Create / Update Change Record Form / It Create / Update Packaging Process Plan Red Decals required on Packaging Proce Update Controlled Supplier Documents (C Update Grey Project Binder / Electronic P Update D-Part / M-Drawing / DSI / DEO N	D-3) I Action ournal les) Eles STC approximate lem Card (PPP) SS Plan (Qpulse) Eleroject Formatte lemonth ournal les)	Database Database Database Database Database Database Database Database Database		N N N N N N N N N N N N N N N N N N N	Resp KJ	MDL to be	updated at nex	t revision			Co 17.04	emplete 1.26 Pd 1.36 Pd
5 6 7 8 9 10 # 11 12 13 14 15 16 17 18 19 20 21 22 23 24	Required Documents/Drawings/Item ID's Update Master Document List (MDL) Update Document Record (DR) Update Product Compatability Matrix Notify TC / FAA of Change (eg. ICA, 8110 Document Control Move / Update Electronic Files / Design J Update Product Specification Files (Bluefi Update Approved/Preliminary Dwg PDF F Update Product Development Summary (i Update QSI 021 (TC/FAA STC) and/or Si Create/Update Parts / STC Database Update / Verify Airworthiness Release Ce Create / Update Change Record Form / It Create / Update Packaging Process Plan Red Decals required on Packaging Proce Update Controlled Supplier Documents (C) Update Grey Project Binder / Electronic P	D-3) I Action ournal les) Eles STC approximate lem Card (PPP) SS Plan (Qpulse) Eleroject Formatte lemonth ournal les)	Database Database Database Database Database Database Database Database Database	STC's)	N N N N N N N N N N N N N N N N N N N	Resp KJ KJ	MDL to be	updated at nex	t revision			17.0	emplete 1.26 Pd 1.36 Pd
5 6 7 8 9 10 # 11 12 13 14 15 16 17 18 19 20 21 22 23	Required Documents/Drawings/Item ID's Update Master Document List (MDL) Update Document Record (DR) Update Product Compatability Matrix Notify TC / FAA of Change (eg. ICA, 8110 Document Control Move / Update Electronic Files / Design J Update Product Specification Files (Bluefi Update Approved/Preliminary Dwg PDF F Update Product Development Summary (i Update QSI 021 (TC/FAA STC) and/or ST Create/Update Parts / STC Database Update / Verify Airworthiness Release Ce Create / Update Change Record Form / It Create / Update Packaging Process Plan Red Decals required on Packaging Proce Update Controlled Supplier Documents (C Update Grey Project Binder / Electronic P Update D-Part / M-Drawing / DSI / DEO N	D-3) I Action ournal les) Eles STC approximate lem Card (PPP) SS Plan (Qpulse) Eleroject Formatte lemonth ournal les)	Database Database Database Database Database Database Database Database Database	STC's)	N N N N N N N N N N N N N N N N N N N	Resp KJ KJ	MDL to be	updated at nex	t revision			17.0	emplete 1.26 Pd 1.36 Pd
5 6 7 8 9 10 # 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25	Required Documents/Drawings/Item ID's Update Master Document List (MDL) Update Document Record (DR) Update Product Compatability Matrix Notify TC / FAA of Change (eg. ICA, 8110 Document Control Move / Update Electronic Files / Design J Update Product Specification Files (Bluefi Update Approved/Preliminary Dwg PDF F Update Product Development Summary (i Update QSI 021 (TC/FAA STC) and/or Si Create/Update Parts / STC Database Update / Verify Airworthiness Release Ce Create / Update Change Record Form / It Create / Update Packaging Process Plan Red Decals required on Packaging Proce Update Controlled Supplier Documents (C Update Grey Project Binder / Electronic P Update "Royalty Paid to" attribute (Parts s	D-3) I Action ournal les) Eles STC approximate lem Card (PPP) SS Plan (Qpulse) Eleroject Formatte lemonth ournal les)	Database Database Database Database Database Database Database Database Database	STC's)	N N N N N N N N N N N N N N N N N N N	Resp KJ KJ	MDL to be	updated at nex	t revision			17.0	emplete 1.26 Pd 1.36 Pd
5 6 7 8 9 10 # 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25	Required Documents/Drawings/Item ID's Update Master Document List (MDL) Update Document Record (DR) Update Product Compatability Matrix Notify TC / FAA of Change (eg. ICA, 8110 Document Control Move / Update Electronic Files / Design J Update Product Specification Files (Bluefi Update Approved/Preliminary Dwg PDF F Update Product Development Summary (i Update Approved/Preliminary Dwg PDF F Update Product Development Summary (i Update QSI 021 (TC/FAA STC) and/or Si Create/Update Parts / STC Database Update / Verify Airworthiness Release Ce Create / Update Change Record Form / It Create / Update Packaging Process Plan Red Decals required on Packaging Proce Update Controlled Supplier Documents (Ci Update Grey Project Binder / Electronic P Update "Royalty Paid to" attribute (Parts s ription / Action:	D-3) I Action ournal les) Files STC approximate lem Card (PPP) SS Plan	Database Database Database Database Database Database Database Database Database	STC's)	N N N N N N N N N N N N N N N N N N N	Resp KJ KJ	MDL to be	updated at nex	t revision			17.0	emplete 1.26 Pd 1.36 Pd
5 6 7 8 9 10 # 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25	Required Documents/Drawings/Item ID's Update Master Document List (MDL) Update Document Record (DR) Update Product Compatability Matrix Notify TC / FAA of Change (eg. ICA, 8110 Document Control Move / Update Electronic Files / Design J Update Product Specification Files (Bluefi Update Approved/Preliminary Dwg PDF F Update Product Development Summary (i Update QSI 021 (TC/FAA STC) and/or Si Create/Update Parts / STC Database Update / Verify Airworthiness Release Ce Create / Update Change Record Form / It Create / Update Packaging Process Plan Red Decals required on Packaging Proce Update Controlled Supplier Documents (C Update Grey Project Binder / Electronic P Update "Royalty Paid to" attribute (Parts s	D-3) I Action ournal les) Files STC approximate lem Card (PPP) SS Plan	Database Database Database Database Database Database Database Database Database	STC's)	N N N N N N N N N N N N N N N N N N N	Resp KJ KJ	MDL to be	updated at nex	t revision			17.0	emplete 1.26 Pd 1.36 Pd
5 6 7 8 9 10 # 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25	Required Documents/Drawings/Item ID's Update Master Document List (MDL) Update Document Record (DR) Update Product Compatability Matrix Notify TC / FAA of Change (eg. ICA, 8110 Document Control Move / Update Electronic Files / Design J Update Product Specification Files (Bluefi Update Approved/Preliminary Dwg PDF F Update Product Development Summary (i Update Approved/Preliminary Dwg PDF F Update Product Development Summary (i Update QSI 021 (TC/FAA STC) and/or Si Create/Update Parts / STC Database Update / Verify Airworthiness Release Ce Create / Update Change Record Form / It Create / Update Packaging Process Plan Red Decals required on Packaging Proce Update Controlled Supplier Documents (Ci Update Grey Project Binder / Electronic P Update "Royalty Paid to" attribute (Parts s ription / Action:	D-3) I Action ournal les) Files STC approximate lem Card (PPP) SS Plan	Database Database Database Database Database Database Database Database Database	STC's)	N N N N N N N N N N N N N N N N N N N	Resp KJ KJ	MDL to be	updated at nex	t revision			17.0	emplete 1.26 Pd 1.36 Pd
5 6 7 8 9 10 # 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25	Required Documents/Drawings/Item ID's Update Master Document List (MDL) Update Document Record (DR) Update Product Compatability Matrix Notify TC / FAA of Change (eg. ICA, 8110 Document Control Move / Update Electronic Files / Design J Update Product Specification Files (Bluefi Update Approved/Preliminary Dwg PDF F Update Product Development Summary (i Update Approved/Preliminary Dwg PDF F Update Product Development Summary (i Update QSI 021 (TC/FAA STC) and/or Si Create/Update Parts / STC Database Update / Verify Airworthiness Release Ce Create / Update Change Record Form / It Create / Update Packaging Process Plan Red Decals required on Packaging Proce Update Controlled Supplier Documents (Ci Update Grey Project Binder / Electronic P Update "Royalty Paid to" attribute (Parts s ription / Action:	D-3) I Action ournal les) Files STC approximate lem Card (PPP) SS Plan	Database Database Database Database Database Database Database Database Database	STC's)	N N N N N N N N N N N N N N N N N N N	Resp KJ KJ	MDL to be	updated at nex	t revision			17.0	emplete 1.26 Pd 1.36 Pd
5 6 7 8 9 10 # 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25	Required Documents/Drawings/Item ID's Update Master Document List (MDL) Update Document Record (DR) Update Product Compatability Matrix Notify TC / FAA of Change (eg. ICA, 8110 Document Control Move / Update Electronic Files / Design J Update Product Specification Files (Bluefi Update Approved/Preliminary Dwg PDF F Update Product Development Summary (i Update Approved/Preliminary Dwg PDF F Update Product Development Summary (i Update QSI 021 (TC/FAA STC) and/or Si Create/Update Parts / STC Database Update / Verify Airworthiness Release Ce Create / Update Change Record Form / It Create / Update Packaging Process Plan Red Decals required on Packaging Proce Update Controlled Supplier Documents (Ci Update Grey Project Binder / Electronic P Update "Royalty Paid to" attribute (Parts s ription / Action:	D-3) I Action ournal les) Files STC approximate lem Card (PPP) SS Plan	Database Database Database Database Database Database Database Database Database	STC's)	N N N N N N N N N N N N N N N N N N N	Resp KJ KJ	MDL to be	updated at nex	t revision			17.0	emplete 1.26 Pd 1.36 Pd
5 6 7 8 9 10 # 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25	Required Documents/Drawings/Item ID's Update Master Document List (MDL) Update Document Record (DR) Update Product Compatability Matrix Notify TC / FAA of Change (eg. ICA, 8110 Document Control Move / Update Electronic Files / Design J Update Product Specification Files (Bluefi Update Approved/Preliminary Dwg PDF F Update Product Development Summary (i Update Approved/Preliminary Dwg PDF F Update Product Development Summary (i Update QSI 021 (TC/FAA STC) and/or Si Create/Update Parts / STC Database Update / Verify Airworthiness Release Ce Create / Update Change Record Form / It Create / Update Packaging Process Plan Red Decals required on Packaging Proce Update Controlled Supplier Documents (Ci Update Grey Project Binder / Electronic P Update "Royalty Paid to" attribute (Parts s ription / Action:	D-3) I Action ournal les) Files STC approximate lem Card (PPP) SS Plan	Database Database Database Database Database Database Database Database Database	STC's)	N N N N N N N N N N N N N N N N N N N	Resp KJ KJ	MDL to be	updated at nex	t revision			17.0	emplete 1.26 Pd 1.36 Pd
5 6 7 8 9 10 # 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25	Required Documents/Drawings/Item ID's Update Master Document List (MDL) Update Document Record (DR) Update Product Compatability Matrix Notify TC / FAA of Change (eg. ICA, 8110 Document Control Move / Update Electronic Files / Design J Update Product Specification Files (Bluefi Update Approved/Preliminary Dwg PDF F Update Product Development Summary (i Update Approved/Preliminary Dwg PDF F Update Product Development Summary (i Update QSI 021 (TC/FAA STC) and/or Si Create/Update Parts / STC Database Update / Verify Airworthiness Release Ce Create / Update Change Record Form / It Create / Update Packaging Process Plan Red Decals required on Packaging Proce Update Controlled Supplier Documents (Ci Update Grey Project Binder / Electronic P Update "Royalty Paid to" attribute (Parts s ription / Action:	D-3) I Action ournal les) Files STC approximate lem Card (PPP) SS Plan	Database Database Database Database Database Database Database Database Database	STC's)	N N N N N N N N N N N N N N N N N N N	Resp KJ KJ	MDL to be	updated at nex	t revision			17.0	emplete 1.26 Pd 1.36 Pd

ECN Verified & Complete:

 $\hbox{H:\label{lem:lem:hearth} H:\label{lem:hearth} In the lem $$H$:\label{lem:hearth} H:\label{lem:hearth} H:$

Date: MAY 1 6 2017